



Biophotonics

Mittwoch/Wednesday, 19.03.2014, Muttenz BL

BioPhotonics - Photonics in Life Sciences

Welcome



Biophotonics

biophotonics denotes a combination of <u>photonics</u> and <u>biology</u> (= techniques that deal with the interaction between biological items and photons) and ...refers to emission, detection, absorption, reflection, modification, and creation of <u>radiation</u> <u>from biomolecules</u>, <u>cells</u>, <u>tissues</u>, <u>organisms</u> and <u>biomaterials</u>.

Areas of application are life science, medicine, agriculture, and environmental sciences.

Source: Wikipedia



Life Sciences - Our understanding ...

- Combined insight from natural sciences (biology, chemistry, physics), engineering and medicine to translate it into processes / products for health care and sustainable protection of the environment.
- Life Sciences focus on: the life and health of humans, animals and the environment.







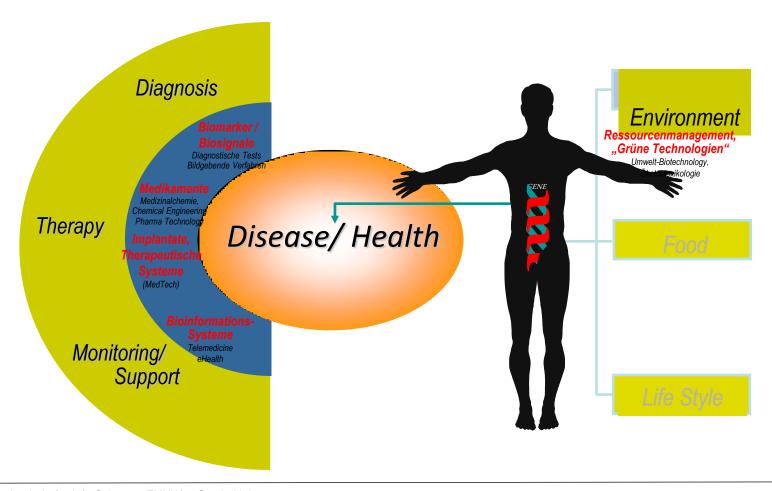






The School of Life Sciences FHNW

holistic view = different technologies, different disciplines





Our Skills and Competences

3¹⁵ pm : Labtours

Institute for Chemistry and Bioanalytics



- Biochemistry, Bioanalytics
 - · (Bio-)Nanotechnology
 - and Catalysis
 - Instrumental Analytics
 - Chemical Engineering

Institute for Medicinal and Analytical Technologies



- Bicsignal Processing and Telemodicine
 - Medicinal Systems and Devices
 - · Implants and Surgical Systems
 - Deep Brain Stimulation
 - muivo Diagnostic Systems

Institute for Ecopreneurship



- Cleaner Production and Ressource Management
 - Environmental (Bio)Technology
 - Environmental Engineering
 - Ecotoxicology
 - Risk Management

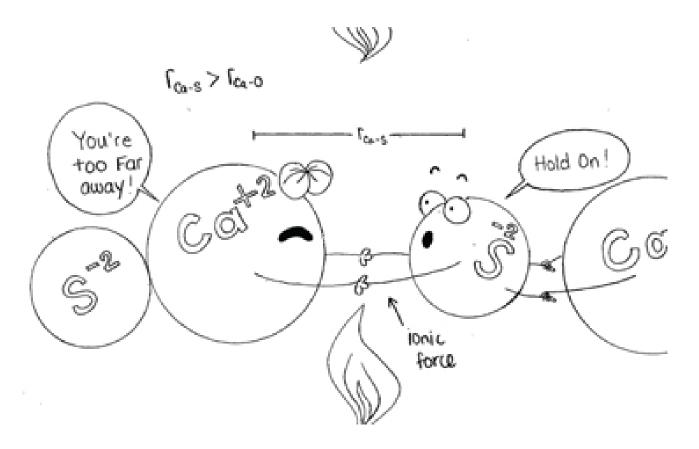
Institute for Pharma Technology



- Drug Formulation and Absorption
- Drug Targeting and Delivery Systems
 - Lipid-based Formulations
- Drug Manufacturing & Production Planning
 - Online-measuring Technologies



I wish you a successful symposium ...



... and many interesting discussions!